



Connectors > Automotive Connectors > Automotive Headers > AMPSEAL HEADERS



Connector System: Wire-to-Board, Wire-to-Device

Number of Positions: 23

Centerline (Pitch): 4 mm [.157 in]

Sealable: Yes

PCB Mount Orientation: Vertical

[All AMPSEAL HEADERS \(111\)](#)

Features

Product Type Features

|                                   |                               |
|-----------------------------------|-------------------------------|
| Hybrid Header                     | No                            |
| Connector System                  | Wire-to-Board, Wire-to-Device |
| Sealable                          | Yes                           |
| Connector & Contact Terminates To | Printed Circuit Board         |

Configuration Features

|                            |          |
|----------------------------|----------|
| Number of Sections         | 1        |
| Number of Signal Positions | 23       |
| Number of Positions        | 23       |
| PCB Mount Orientation      | Vertical |
| Number of Rows             | 3        |

Electrical Characteristics

|                              |                               |
|------------------------------|-------------------------------|
| Voltage Rating (Max)         | 250 VAC                       |
| Nominal Voltage Architecture | 12 V, 24 V, 42 V, 48 V, 240 V |
| Operating Voltage            | 250 VAC                       |

Body Features

|                       |       |
|-----------------------|-------|
| Primary Product Color | Black |
|-----------------------|-------|



Contact Features

|                                      |                 |
|--------------------------------------|-----------------|
| Mating Tab Width                     | 1.3 mm[.051 in] |
| Mating Tab Thickness                 | 1.3 mm[.051 in] |
| Mating Pin Diameter                  | 1.3 mm[.051 in] |
| Contact Mating Area Plating Material | Gold (Au)       |

Termination Features

|                                             |                       |
|---------------------------------------------|-----------------------|
| Termination Method to Printed Circuit Board | Through Hole - Solder |
|---------------------------------------------|-----------------------|

Mechanical Attachment

|                          |             |
|--------------------------|-------------|
| Locking Interface        | With        |
| Mounting Holes           | With        |
| PCB Mount Alignment      | With        |
| Panel Mount Feature      | Without     |
| PCB Mount Retention      | Without     |
| PCB Mount Retention Type | Solder Tail |

Housing Features

|                    |               |
|--------------------|---------------|
| Centerline (Pitch) | 4 mm[.157 in] |
|--------------------|---------------|

Dimensions

|                             |                    |
|-----------------------------|--------------------|
| Profile Height from PCB     | 34.25 mm[1.348 in] |
| PCB Thickness (Recommended) | 1.57 mm[.062 in]   |
| Product Width               | 32.1 mm[1.264 in]  |
| Product Length              | 60.8 mm[2.394 in]  |

Usage Conditions

|                             |                                                                                                                                                                          |
|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Operating Temperature (Max) | 65 °C, 70 °C, 75 °C, 80 °C, 85 °C, 90 °C, 100 °C, 105 °C, 110 °C, 120 °C, 125 °C[149 °F][158 °F][167 °F][176 °F][185 °F][194 °F][212 °F][221 °F][230 °F][248 °F][257 °F] |
| Operating Temperature Range | -40 – 125 °C, -40 – 125 °C[-40 – 257 °F][-40 – 257 °F]                                                                                                                   |

Operation/Application

|                     |                |
|---------------------|----------------|
| Shielded            | No             |
| Circuit Application | Power & Signal |

Industry Standards

|                      |             |
|----------------------|-------------|
| Degree of Protection | IP67, IP69K |
|----------------------|-------------|



UL Flammability Rating

UL 94V-0

Packaging Features

|                    |     |
|--------------------|-----|
| Packaging Quantity | 220 |
|--------------------|-----|

Product Compliance

For compliance documentation, visit the product page on TE.com>

|                                               |                                                                                                                               |
|-----------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| EU RoHS Directive 2011/65/EU                  | Compliant                                                                                                                     |
| EU ELV Directive 2000/53/EC                   | Compliant                                                                                                                     |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold                                                                                       |
| EU REACH Regulation (EC) No. 1907/2006        | Current ECHA Candidate List: JAN 2021 (211)<br>Candidate List Declared Against: JAN 2021 (211)<br>Does not contain REACH SVHC |
| Halogen Content                               | Not Low Halogen - contains Br or Cl > 900 ppm.                                                                                |
| Solder Process Capability                     | Wave solder capable to 265°C                                                                                                  |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: <https://echa.europa.eu/guidance-documents/guidance-on-reach>

Compatible Parts



Also in the Series | AMPSEAL



Automotive Connector Caps & Covers (5)



Automotive Headers(111)



Automotive Housings(16)



Automotive Seals & Cavity Plugs(1)



Automotive Terminals(4)

Customers Also Bought



TE Part #1-1734261-2  
AMP HPI 1.25MM HEADERS



TE Part #1-480319-9  
02P CMNL CAP HSG F/H BLK



TE Part #1-480318-9  
02P CMNL PLUG HSG F/H BLK



TE Part #DTT-12-01  
CRIMP TOOL



TE Part #1-776230-1  
AMPSEAL HEADERS



TE Part #1-1564532-1  
HEAVY DUTY SEALED CONNECTOR HOUSINGS



TE Part #1-1734264-1  
M/J,RJ45,Side entry,8P8C,R/A,1



TE Part #1-1571076-0  
PRASA1-16F-BB0BW=POWER ROCKER

Documents

Product Drawings

HEADER ASSY, 23 POS VERTICAL

English

CAD Files

Customer View Model

ENG\_CVM\_1-776200-1\_D3.3d\_igs.zip

English

Customer View Model



[ENG\\_CVM\\_1-776200-1\\_D3.3d\\_stp.zip](#)

English

**Customer View Model**

[ENG\\_CVM\\_1-776200-1\\_D3.2d\\_dxf.zip](#)

English

**3D PDF**

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

**Datasheets & Catalog Pages**

[ICT Terminals and Connectors Catalogue](#)

English

[AMPSEAL Connector Catalog](#)

English

**CONNECTOR SELECTOR**

English

**Product Specifications**

[Application Specification](#)

English

**Agency Approvals**

[Agency Approval Document](#)

English